GCSE MATHEMATICS
AQA | Edexcel | OCR I WJEC

## Fractions and Recurring Decimals

Please write clearly in block capitals

Forename:
Surname:

## Materials

For this paper you must have:

- mathematical instruments

You must not use a calculator.


## Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.


## Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.


## Advice

- In all calculations, show clearly how you work out your answer.

1(a) Which of the following fractions results in a recurring decimal?
$\frac{9}{12}$
$\frac{4}{6}$
$\frac{3}{15}$
$\frac{8}{16}$

1(b) Which of the following decimals is the same as $\frac{11}{12}$
$0 . \dot{9}$
1.1
0.89
0.916

1(c) Which of the following fractions is the same as $0 . \dot{6}$
$\frac{2}{13}$
$\frac{4}{9}$
$\frac{6}{9}$
$\frac{13}{50}$

2 Find what $\frac{7}{12}$ is as a recurring decimal
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer $\qquad$
$3 \quad \frac{1}{4}$ as a decimal is 0.25
Find the fraction which is equivalent to $0 . \dot{2} \dot{5}$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer $\qquad$
$4 \quad$ Find what $0.13 \dot{5}$ is as a fraction.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer $\qquad$

5 Janet completes 4 steps out of 11 in order to unlock an achievement on her favourite app.

What is the proportion of the achievement that Janet has completed as a recurring decimal?
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer $\qquad$

## Turn over for next question

6 Terry is trying to answer the maths question shown below:
"Find what $0.8 \dot{3}$ is as a fraction"
Terry's workings are shown below:

| Step 1: | $0.8 \dot{3}=x$ |
| :--- | :---: |
|  |  |
| Step 2: |  |
|  | $83 . \dot{3}=10 x$ |
| Step 3: |  |
|  | $-83 . \dot{3}=10 x$ |
|  | $0.8 \dot{3}=x$ |
| Step 4: | $83=9 x$ |
|  | $83-9=x$ |
|  | $x=74$ |

Describe what error(s) Terry has made.
Show the correct working to answer Terry's exam question.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Answer


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